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# SEARCH REQUEST FORM

**Scientific and Technical Information Center**

# EIC 2600

Requester's Full Name Krista Zele Examiner # 67644 Date 9/26/05

Art Unit 2600 Phone Number 2-7288 Serial Number 09/887042

Office Location Jeff 2D61 Format preferred (circle) PAPER EMAIL BOTH

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**Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.**

**Please state how the terms or keyword strings should relate to one another.**

**Title of the Invention** _____

**Inventor(s)** US 5677929

**Earliest Priority date to be used** _____

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**Query/Command : prt max legalall**

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*1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image*

**PN** - US5677929 A 19971014 [US5677929]

**TI** - (A) Automobile on-board and/or portable telephone system

**PA** - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

**PA0** - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

**IN** - (A) ASANO NOBUO (JP); KATO OSAMU (JP)

**AP** - US27215694 19940708 [1994US-0272156]

**PR** - JP19901393 19930716 [1993JP-0199013]

**IC** - (A) H04B-015/00 H04K-001/00 H04L-027/30

**EC** - H04B-007/26S12

**PCL** - ORIGINAL (O) : 375141000

**DT** - Basic

**CT** - US4901307
Allen Salmasi et al., "On The System Design Aspects of Code Division Multiple Access (CDMA) Applied To Digital Cellular And Personal Communications Networks", May 1991 41st IEEE Vehicular Technology Conference, pp. 57-62.

**STG** - (A) United States patent

**AB** - In an automobile on-board and/or portable telephone system capable of increasing the capacity of subscribers easily on the basis of changing of information transmission bit rate, spread codes obtained by multiplying orthogonal spread codes (m in number) by a pseudo-random noise series are assigned to individual channels in the same cell in such a manner that the orthogonal spread codes are multiplied by some types of pseudo-random noise series having different phases, thereby making it possible to maintain the number of channels in the same cell at a value which is a multiple of the number of the orthogonal spread codes. Through this, in the case where the transmission bit rate is halved as compared to the presently existing rate in the future, assignment of spread codes which are increased in number to as large a value as necessary can be achieved and the subscriber's capacity can be increased within a range in which the necessary quality can be maintained even when link paths for m or more channels are set up in one cell from the viewpoint of Signal to Interference Ratio.

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*1 / 1 LGST - ©EPO*

**PN** - US5677929 A 19971014 [US5677929]

**AP** - US27215694 19940708 [1994US-0272156]

**ACT** - 19940708 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZ;
EFFECTIVE DATE: 19940629

19940708 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: ASANO, NOBUO; EFFECTIVE DATE: 19940629

19940708 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KATO, OSAMU; EFFECTIVE DATE: 19940629

19990824 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990621

20010814 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20010625

**UP** - 2003-22

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*1/1 CRXX - ©CLAIMS/RRX*

**PN** - 5,677,929 A 19971014 [US5677929]

**PA** - Matsushita Electric Industrial Co Ltd JP

**ACT** - 19990621 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19990824
REISSUE REQUEST NUMBER: 09/337403
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2734
Reissue Patent Number: USRE37420

20010625 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010814
REISSUE REQUEST NUMBER: 09/887042
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

Search statement 3

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5677929

October 14, 1997

# Automobile on-board and/or portable telephone system

REISSUE: This Patent was reissued on Oct. 23, 2001 as Reissue Patent Re 37,420.Reissue Application filed Jun. 25, 2001 (O.G. Aug. 14, 2001) Ex., (O.G. August 14, 2001)

APPL-NO: 272156 (08)

FILED-DATE: July 8, 1994

GRANTED-DATE: October 14, 1997

CORE TERMS: spread, channel, user, processing, orthogonal, assigned, portable, spectrum, despread, modulator ...

5,677,929 OR 5677929

**LEXIS-NEXIS**
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**Welcome Kim Johnson!**



# Patent Search - Number: 5677929

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